Information Technology and Applications Office (ITAO)

Accelerating Tomorrow's Information Technology Systems and Applications

www.atp.nist.gov

1-800-ATP-FUND

Information Technology and Applications Office

- ## **Vision**
  - ATP is the centerpiece of the government's investment in civilian technology in the new millennium

- ## **Mission**
  - Accelerate the development of innovative information technologies and IT applications for broad national benefit through partnerships with the private sector

- **Project Development**
  - Support industry efforts to define high-risk, innovative projects and solicit related proposals for ATP
  - Enable greater understanding of ATP criteria and objectives in the information technology community through education and outreach
- Project Selection
- Project Management

- Project Development

- **Project Selection**
  - Main group responsible for the evaluation of information technology proposals and funding recommendations for projects that best meet the ATP criteria

- Project Management

- Project Development

- Project Selection

- **Project Management**
  - Collaborate with companies to ensure project success
  - Government's technical and business representatives
    - Monitor project's technical and business progress against agreed to milestones and expenditures

Investments in Information Technology

ATP Funding: > $400 million

Projects: 99

Single Companies: 73

Joint Ventures: 26

Participants: 196

University Participants: 81

ITAO Areas of Interest Examples: Systems

System Development

Quality Assurance, Dependable Computing,
Real Time Systems, Component-Based SW

Electronic Commerce

Interoperability, Infrastructure, Security, e-Payment

Healthcare Information Systems

Medical Data, Telemedicine

Advanced Learning Systems
Authoring tools, Data Mining, Knowledge Bases

Human Computer Interface
Digital Video, Voice and Multimedia

Virtual Reality On the Internet
Tele-collaboration, Tele-presence, Avatars, Animation

General Information Technology Systems

Intelligent Manufacturing
Robotics, Control, E-Design

IT for Transportation
Smart Vehicles, Trains and Highways

IT for Construction
Architectural Design, Engineering, Supply Chain

IT for Civil & Urban Planning
Utilities Planning, Communication, Traffic Modeling

National Institute of Standards and Technology • Technology Administration • U.S. Department of Commerce

IT for Environment

Air Quality Systems, Natural Resources Modeling

Intelligent Home

Smart Appliances, Smart Room

Biometrics and Physical Security

Finger-Print, Face Recognition

General Information Technology Applications

Virtual Reality: Aesthetic Solutions

Project Title:

A Component Technology for VR based Applications

Funding Amount:

$1,716,000

Participants:

University of California at Irvine

A new tool kit of software components lowers the barriers to using VR in applications like education, training, entertainment.

Digital Video Applications: Cubic Videocomm, Inc.

Project Title:

Adaptive Video Codec for Information Network

ATP Funding Amount:

$1,739,548

Other Participants:

University of Southern California

New video compression technology enables video messaging clearly and efficiently.

National Institute of Standards and Technology • Technology Administration • U.S. Department of Commerce

Project Title:

A 3-D Database for Visualization of Human Physiology

ATP Funding Amount:

$1,946,891

Other Participants:

Mayo Clinic

Three-dimensional, fully detailed engineering database of the human body using visualization and computational dynamics

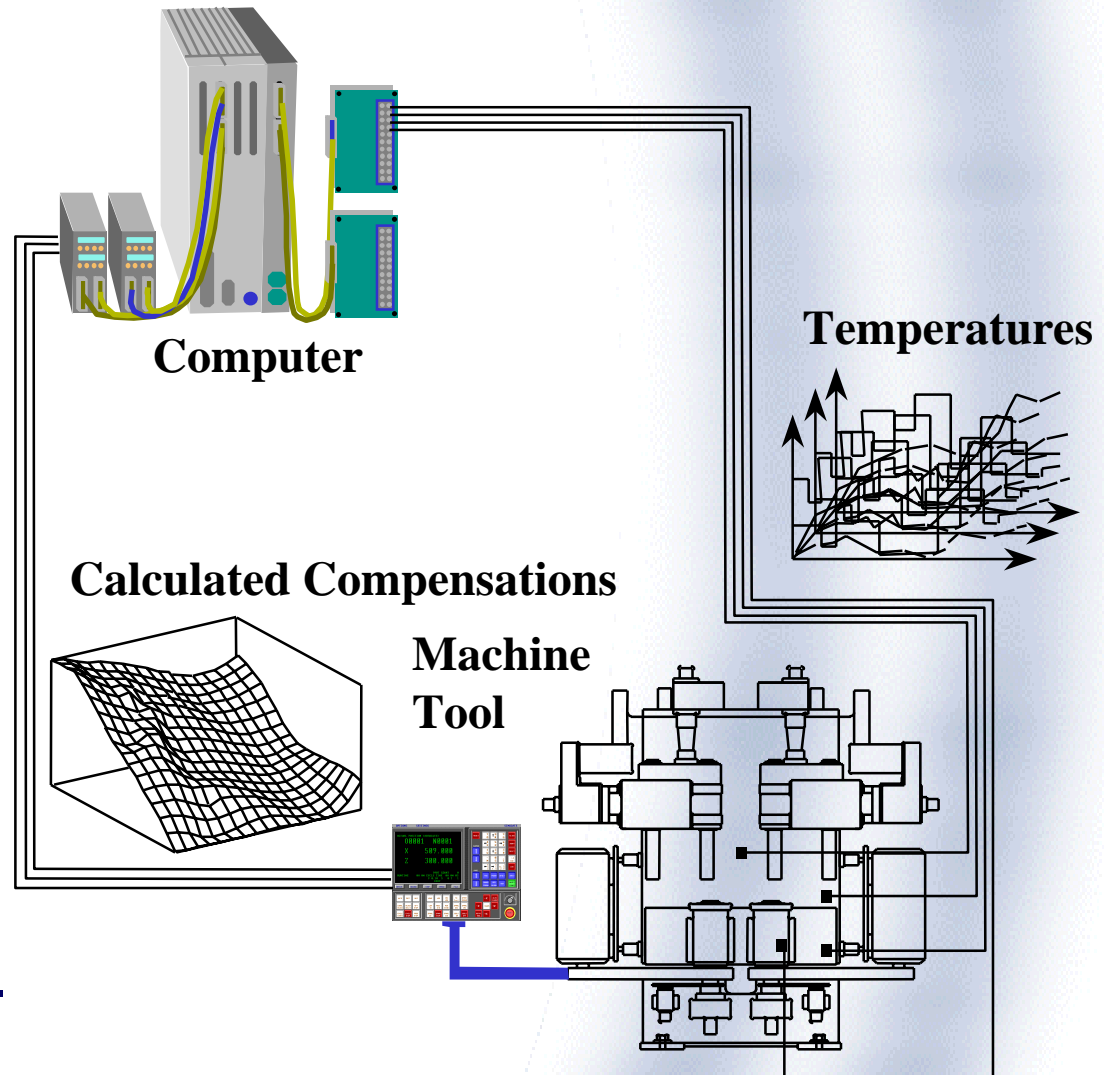# IT for Manufacturing: Saginaw Machine Systems, Inc.

Project Title:

Advanced Compensation Techniques for Machine Tool Accuracy

ATP Funding Amount:

$540,000

Other Participants:

University of Michigan

The projects uses intelligent control methods to calculate how much the machine must compensate for variations.

Computer

Temperatures

Calculated Compensations

Machine Tool

Step 1:   Go to the ATP website **www.atp.nist.gov**. Click on "**Competitions**" to get information on current and past funding opportunities.

Step 2:   Develop your idea and contact an ITAO member in your field.

Step 3:   Write a four page pre-proposal. From main web page, click on "**How to Apply**" and then click on "**ATP Proposal Preparation Kit**".

Step 4: Develop a detailed technical idea and write the technical plan.

Step 5: Write a business plan and then prepare a budget.

Step 6: Incorporate the feedback from the pre-proposal.

Step 7: Submit a proposal (maximum 40 pages for single company and 60 pages for joint venture).

ITAO Points of Contact

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Areas of Interest: *Discrete Part Manufacturing, Micro-machining*

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Areas of Interest: *Manufacturing, E-commerce, System Integration*

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Areas of Interest: *System Development, Software Engineering*

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Areas of Interest: *Healthcare Information Systems, IT for Environment*

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Areas of Interest: *Virtual Reality, Intelligent Manufacturing and Home, Biometrics*

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